

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,322	11/12/2003	Enrique Carlos Leira	SLU 00-013	6487
33436 SAINT LOUIS	7590 01/29/2008 SUNIVERSITY	EXAMINER		
OFFICE OF INNOVATION AND INTELLECTUAL PROPERTY			GRAY, PHILLIP A	
3556 CAROLI SUITE C208	3556 CAROLINE MALL SUITE C208			PAPER NUMBER
ST. LOUIS, MO 63104			3767	
			MAIL DATE	DELIVERY MODE
			01/29/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	,	Application No.	Applicant(s)			
		10/706,322	LEIRA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Phillip Gray	3767			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address			
WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING D. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. or period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON	N. mely filed in the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Note to Responsive to communication(s) filed on 05 November 2007.					
,	This action is FINAL. 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under l	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.			
Disposit	ion of Claims					
4)⊠	Claim(s) 1-41 is/are pending in the application	ı .				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
· ·	Claim(s) <u>1-41</u> is/are rejected.					
	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/o	or election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Examine	er.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the E	xaminer. Note the attached Office	e Action or form P1O-152.			
Priority	under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
•	See the attached detailed Office action for a ils	t of the certified copies not recei	vea.			
Attachment(s)						
	ce of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948)	4) Ll Interview Summa Paper No(s)/Mail				
3) 🔲 Info	rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Notice of Informa 6) Other.				

Art Unit: 3767

DETAILED ACTION

This office action is in response to applicant's communication of 11/5/2007.

Currently claims 1-41 are pending and rejected below.

Response to Arguments

Applicant's arguments with respect to claim 1-41 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Art Unit: 3767

Claims 1-7,13,16-22,24, 27, and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duffy (U.S. Patent Number 6,050,973) in view of Cole (U.S. 934,286).

Duffy discloses an automatic flow control device, method, and kit, which is used for collecting a fluid comprising a pressure sensitive valve (as in figure 2 through 4). The Duffy device valve comprises a housing (30,80) and inlet (near 36), an outlet (near 66 with affixed tubing 37), a fluid channel (76), and a cylinder shaped rod (70) which can completely obstruct the communication between the inlet and outlet such that when a pressure differential between the inlet and the outlet is at or greater than a preset value, the rod is displaced to obstruct the fluid from flowing from the inlet to the outlet and when the pressure differential between the inlet and the outlet is less than the preset value, the rod is not displaced to allow the fluid to flow from the inlet to the outlet, and valves (see abstract, and paragraphs at columns 4 line 25 through column 5 line 20). This rod is connected to the outlet by a spring (84) and retaining pin (82 for example). Further the Duffy rod is perpendicular to the fluid channel (as the fluid enters opening 37) or inline (near 76 and opening 36), has a constriction opening (aperture on rod near 76) and a rod channel contiguous with the fluid channel (see figures 1-4).

Cole discloses a valve for use in fluid drainage that comprises a housing (5), housing inlet (13) and outlet (near 11), fluid channel (path which fluid would flow through as in figure 2), a rod (8/9) that can be in only two positions, a first position (figure 3) and a second position (figure 2), wherein the rod has a "rod fluid channel inlet" (10), rod fluid channel" (hollow space of the rod), and "rod fluid channel outlet" (end of rod near 9),

Art Unit: 3767

which are generally inline and the fluid flow is generally straight, Further the only one of two positions of the rod is redily visible to an operator during the operation of the device (figure 3)

Duffy discloses the claimed invention except for the generally inline and straight rod fluid channel. Cole teaches that it is known to use the generally inline and straight rod fluid channel as set forth in paragraphs at Lines 8-74 to provide a valve which is "simple in structure, reliable in operation and which can be readily connected up anywhere on the line". It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system as taught by Duffy with the generally inline and straight rod fluid channel as taught by Cole, since such a modification would provide the system with a generally inline and straight rod fluid channel for providing a valve "automatic in operation, it is simple in construction and therefore not liable to get out of order, and it effectually serves the purpose for which it is designed.

Further concerning the amendments to the claims of "the valve can be in only one of two positions", a first completely obstructing position and a second position with a non displaced rod and unrestricted flow from inlet to outlet, it is examiners position that Duffy discloses such an operation (see abstract, and paragraphs at columns 4 line 25 through column 5 line 20 and "first position" in figure 2 and "second position" in figure 4). The elements disclosed in Duffy are fully capable of satisfying all structural, functional, spatial, and operational limitations in the amended claims, as currently written, and the rejection is made and proper.

Art Unit: 3767

Claims 8-11, 12, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duffy in view of Cole.

Concerning claims 8-11, Duffy in view of Cole discloses the claimed invention except for the preset value is at or greater than 10 mm of H2O, 50 mm of H2O, 100mm of H2O, or between 179mm and 221mm of H2O. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a preset value is at or greater than 10 mm of H2O, 50 mm of H2O, 100mm of H2O, or between 179mm and 221mm of H2O, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980)* and it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller, 105 USPQ 233 (CCPA 1955*).

Concerning claims 12 and 23, Duffy in view of Cole discloses the claimed invention except for the fluid comprising body fluid, blood, or CSF. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the fluid be body fluid, blood, or CSF, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 227 F.2d 197, 125 USPQ 416 (CCPA 1960).

711/ Control (Nathbol): 10/100,02

Art Unit: 3767

Claims 14,15, 25, 26, and 28-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duffy in view of Cole in further view of Bierman (U.S. Patent Number 2,535,998).

Duffy in view of Cole discloses the claimed invention except for the stopcock, threeway valve, needle and manometer assembly is affixed to the outlet from the housing. Bierman teaches that it is known to use a stopcock, threeway valve, needle and manometer assembly is affixed to the outlet from the housing as set forth in paragraphs at columns 1-3 to provide an ability for the pulse to be observed and control fluid flow by stopping. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the flow control system as taught by Duffy in view of Cole with the stopcock, threeway valve, needle and manometer assembly is affixed to the outlet from the housing as taught by Bierman, since such a modification would provide the flow control system with a stopcock, threeway valve, needle and manometer assembly is affixed to the outlet from the housing for providing an ability for the pulse to be observed and control fluid flow by stopping.

Claims 40 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duffy in view of Cole. Duffy in view of Cole discloses the claimed invention except for the housing being a sterile transparent material. It would have been obvious to one having ordinary skill in the art at the time the invention was made to cause the housing to be a sterile transparent material, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 227 F.2d 197, 125

Art Unit: 3767

USPQ 416 (CCPA 1960). and it would be advantageous to be able to view the contents directly as the flow through the valve and housing.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phillip Gray whose telephone number is (571) 272-7180. The examiner can normally be reached on Monday through Friday, 8:30 a.m. to 4:30 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Sirmons can be reached on (571) 272-4965. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 3767

PAS PAG

> KEVIN C. SIRMONS SUPERVISORY PATENT EXAMINER

Page 8